

What is claimed is:

1 1. A medical device for retaining an end of a tube,
2 comprising:

3 a base, comprising an upper surface and a lower
4 surface; wherein

5 at least one of said upper and lower
6 surfaces define an opening extending from
7 said upper surface to said lower surface,
8 said opening for receiving said tube; and

9 said upper and lower surfaces define a
10 first side cavity between said upper and
11 lower surfaces; and

12 a first tab having a portion that is movable
13 within said first side cavity, said first tab
14 comprising

15 an upper surface, a lower surface, a
16 proximal end and a distal end; and

17 a first tube compression member
18 extending from the distal end of said first
19 tab.

1 2. The medical device of claim 1, wherein

2 said base comprises a first locking base feature;
3 said first tab comprises a first locking tab
4 feature; and

5 said first locking tab feature is engagable with
6 said first locking base feature when said first tab is
7 within said first side cavity.

1 3. The medical device of claim 2, wherein

2 said first locking base feature comprises a first
3 plurality of teeth on said base; and

4 said plurality of teeth on said base are
5 engagable with said first locking tab feature.

1 4. The medical device of claim 2, wherein
2 said first locking tab feature comprises a
3 plurality of teeth on said first tab; and
4 said plurality of teeth on said first tab are
5 engagable with said first locking base feature.

1 5. The medical device of claim 2, wherein
2 said first locking base feature comprises a
3 locking opening in said base;
4 said first locking tab feature comprises a
5 locking member extending from said first tab; and
6 said locking member is engagable with said
7 locking opening.

1 6. The medical device of claim 2, wherein when said first
2 locking tab feature is engaged with said first locking
3 base feature, said first tube compression member comes
4 into contact with said tube.

1 7. The medical device of claim 1, wherein said first tab
2 includes a first tube closing member extending from
3 the distal end of said first tab, and when said first
4 locking tab feature is engaged with said first locking
5 base feature, said first tube closing member extends
6 into said opening in said base.

1 8. The medical device of claim 7, wherein when said
2 medical device is in use, said tube is placed through
3 said opening in said base through said lower surface
4 of said base, said first locking tab feature is
5 engaged with said first locking base feature, and said

6 first tube closing member pushes against a side of
7 said tube to thereby substantially close said tube.

1 9. The medical device of claim 1, wherein said upper and
2 lower surfaces of said base define a second side
3 cavity between said upper and lower surfaces.

1 10. The medical device of claim 9, further comprising a
2 second tab having a portion that is movable within
3 said second side cavity, said second tab comprising
4 an upper surface, a lower surface, a
5 proximal end and a distal end; and
6 a second tube compression member extending
7 from the distal end of said second tab.

1 11. The medical device of claim 10, wherein
2 said base comprises a second locking base
3 feature;
4 said second tab comprises a second locking tab
5 feature; and
6 said second locking tab feature is engagable with
7 said second locking base feature when said second tab
8 is within said second side cavity.

1 12. The medical device of claim 11, wherein
2 said second locking base feature comprises a
3 second plurality of teeth on said base; and
4 said second plurality of teeth on said base are
5 engagable with said second locking tab feature.

1 13. The medical device of claim 11, wherein
2 said second locking tab feature comprises a
3 plurality of teeth on said second tab; and

4 said plurality of teeth on said second tab are
5 engagable with said second locking base feature.

1 14. The medical device of claim 11, wherein
2 said second locking base feature comprises a
3 locking opening in said base;
4 said second locking tab feature comprises a
5 locking member extending from said second tab; and
6 said locking member is engagable with said
7 locking opening.

1 15. The medical device of claim 11, wherein when said
2 second locking tab feature is engaged with said second
3 locking base feature, said second tube compression
4 member comes into contact with said tube.

1 16. The medical device of claim 11, wherein said second
2 tab includes a second tube closing member extending
3 from the distal end of said second tab, and when said
4 second locking tab feature is engaged with said second
5 locking base feature, said second tube closing member
6 extends into said opening in said base.

1 17. The medical device of claim 16, wherein when said
2 medical device is in use, said tube is placed through
3 said opening in said base through said lower surface
4 of said base, said first locking tab feature is
5 engaged with said first locking base feature, said
6 second locking tab feature is engaged with said second
7 locking base feature, and said first tube closing
8 member and said second tube closing member push
9 against said tube to thereby substantially close said
10 tube.

- 1 18. The medical device of claim 1, further comprising a
2 boot placed around said base, said boot comprising
3 an upper surface juxtaposed against said upper
4 surface of said base;
5 a lower surface juxtaposed against said lower
6 surface of said base; and
7 a first opening in said upper surface of said
8 boot and a second opening in said lower surface of
9 said boot, said first and second openings of said boot
10 being in axial alignment with said opening in said
11 base.
- 1 19. The medical device of claim 18, wherein said boot
2 comprises an elastomeric material.
- 1 20. The medical device of claim 18, further comprising a
2 valve in said first opening of said boot.
- 1 21. The medical device of claim 20, wherein said valve
2 comprises an elastic material having a through-
3 thickness slit therein.
- 1 22. The medical device of claim 18, further comprising a
2 plug attached to said boot by an arm member, said plug
3 being insertable into the end of said tube to prevent
4 the flow of bodily fluids therefrom.
- 1 23. The medical device of claim 18, wherein said boot
2 includes a flap extending from the bottom surface
3 thereof, said flap for attaching said boot to a
4 patient.

1 24. The medical device of claim 1, further comprising a
2 stem comprising

3 a tubular bottom portion insertable into the end
4 of said tube, said tubular bottom portion comprising
5 a cylindrical side wall, a top end and a bottom end;
6 and

7 a positioning member at the top end of said
8 tubular bottom portion, said positioning member
9 defining an opening coaxial with said tubular bottom
10 portion;

11 wherein when said medical device is in use, said
12 tube is placed through said opening in said base
13 through said lower surface of said base, said tubular
14 bottom portion of said stem is placed into the end of
15 said tube, and said positioning member rests against
16 said upper surface of said base.

1 25. The medical device of claim 24, wherein

2 the cylindrical side wall of said tubular bottom
3 portion defines a retention window; and

4 when said first locking tab feature is engaged
5 with said first locking base feature, said tube
6 compression forces at least part of said tube into
7 said retention window.

1 26. The medical device of claim 24, wherein said
2 cylindrical side wall has a mechanical surface
3 thereon.

1 27. The medical device of claim 24, wherein

2 said base includes an alignment recess in said
3 upper surface of said base; and

4 when said medical device is in use, said
5 positioning member rests within said alignment recess.

1 28. The medical device of claim 24, further comprising a
2 feeding tube interface over said stem.

1 29. The medical device of claim 1, further comprising a
2 stem attached to said upper surface of said base when
3 said lower surface of said base defines said opening,
4 said stem extending from said upper surface towards
5 said opening, said stem characterized by a cylindrical
6 profile, wherein
7 when said medical device is in use, said tube is
8 placed through said opening and over said stem; and
9 said first tube compression member conforms to at
10 least part of the profile of said stem.

1 30. The medical device of claim 29, wherein said stem
2 extends from said upper surface through said opening
3 in said lower surface.

1 31. The medical device of claim 29, wherein said stem
2 comprises:
3 a first cylindrical portion adjacent said upper
4 surface;
5 a second cylindrical portion adjacent said first
6 cylindrical portion; and
7 a third cylindrical portion adjacent said second
8 cylindrical portion; wherein
9 said second cylindrical portion has a
10 diameter greater than either of said first or third
11 cylindrical portions.

1 32. The medical device of claim 31, wherein when said
2 medical device is in use, said tube is placed over

3 each of said first, second and third cylindrical
4 portions.

1 33. The medical device of claim 29, wherein said stem
2 further comprises a valve housing.